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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/375,333DATE: 09/04/1999
TIME: 17:08:49

Input Set: I375333.RAW

This Raw Listing contains the General Information
Section and up to first 5 pages.

1 <110> APPLICANT: Oppermann, Hermann
2 Tai, Mei-Sheng
3 McCartney, John
4 <120> TITLE OF INVENTION: Modified TGF-beta Superfamily Proteins
5 <130> FILE REFERENCE: STK-075
6 <140> CURRENT APPLICATION NUMBER: US/09/375,333
7 <141> CURRENT FILING DATE: 1999-08-16
8 <160> NUMBER OF SEQ ID NOS: 88
9 <170> SOFTWARE: PatentIn Ver. 2.0
10 <210> SEQ ID NO 1
11 <211> LENGTH: 35
12 <212> TYPE: PRT
13 <213> ORGANISM: Drosophila melanogaster
14 <220> FEATURE:
15 <223> OTHER INFORMATION: 60-A
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19 Glu Asn Val Asn Leu Lys Lys Tyr Arg Asn Met Ile Val Lys Ser Cys
20 20 25 30
21 Gly Cys His
22 35
23 <210> SEQ ID NO 2
24 <211> LENGTH: 35
25 <212> TYPE: PRT
26 <213> ORGANISM: Homo sapiens
27 <220> FEATURE:
28 <223> OTHER INFORMATION: BMP-2
29 <400> SEQUENCE: 2
30 Val Pro Thr Glu Leu Ser Ala Ile Ser Met Leu Tyr Leu Asp Glu Asn
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32 Glu Lys Val Val Leu Lys Asn Tyr Gln Asp Met Val Val Glu Gly Cys
33 20 25 30
34 Gly Cys Arg
35 35
36 <210> SEQ ID NO 3
37 <211> LENGTH: 35
38 <212> TYPE: PRT
39 <213> ORGANISM: Homo sapiens
40 <220> FEATURE:
41 <223> OTHER INFORMATION: BMP-3
42 <400> SEQUENCE: 3
43 Val Pro Glu Lys Met Ser Ser Leu Ser Ile Leu Phe Phe Asp Glu Asn
44 1 5 10 15

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53      <220> FEATURE:
54      <223> OTHER INFORMATION: BMP-4
55      <400> SEQUENCE: 4
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60      Gly Cys Arg
61                35
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64      <212> TYPE: PRT
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86      Gly Cys His
87                35
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90      <212> TYPE: PRT
91      <213> ORGANISM: Homo sapiens
92      <220> FEATURE:
93      <223> OTHER INFORMATION: BMP-9
94      <400> SEQUENCE: 7

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137     20              25              30
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141     <211> LENGTH: 36
142     <212> TYPE: PRT
143     <213> ORGANISM: Gallus gallus
144     <220> FEATURE:

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/375,333

DATE: 09/04/1999

TIME: 17:08:49

Input Set: I375333.RAW

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155 <212> TYPE: PRT
156 <213> ORGANISM: Drosophila melanogaster
157 <220> FEATURE:
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159 <400> SEQUENCE: 12
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166 <210> SEQ ID NO 13
167 <211> LENGTH: 35
168 <212> TYPE: PRT
169 <213> ORGANISM: Mus musculus
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171 <223> OTHER INFORMATION: GDF-1
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175 Asp Asn Val Val Leu Arg His Tyr Glu Asp Met Val Val Asp Glu Cys
176 20 25 30
177 Gly Cys Arg
178 35
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180 <211> LENGTH: 35
181 <212> TYPE: PRT
182 <213> ORGANISM: Mus musculus
183 <220> FEATURE:
184 <223> OTHER INFORMATION: GDF-3
185 <400> SEQUENCE: 14
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190 Gly Cys Gly
191 35
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193 <211> LENGTH: 35
194 <212> TYPE: PRT

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/375,333

DATE: 09/04/1999
TIME: 17:08:49

Input Set: I375333.RAW

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202               20             25             30
203   Gly Cys Arg
204               35
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206 <211> LENGTH: 35
207 <212> TYPE: PRT
208 <213> ORGANISM: Mus musculus
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210 <223> OTHER INFORMATION: GDF-6
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220 <212> TYPE: PRT
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223 <223> OTHER INFORMATION: GDF-7
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233 <212> TYPE: PRT
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241               20             25             30
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243               35
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Please Note:

Use of n and/or Xaa have been detected in the Sequence Listing. Please review the Sequence Listing to ensure that a corresponding explanation is presented in the <220> to <223> fields of each sequence which presents at least one n or Xaa.

Input Set: I375333.RAW

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1152	W "N" or "Xaa" used: Feature required	Lys Trp Ile His Glu Pro Lys Gly Tyr Xaa A
1154	W "N" or "Xaa" used: Feature required	Xaa Cys Pro Tyr Xaa Trp Ser Xaa Asp Thr G
1156	W "N" or "Xaa" used: Feature required	Xaa Leu Tyr Asn Xaa Xaa Asn Pro Xaa Ala S
1158	W "N" or "Xaa" used: Feature required	Val Pro Gln Xaa Leu Glu Pro Leu Xaa Ile X
1160	W "N" or "Xaa" used: Feature required	Xaa Xaa Lys Val Glu Gln Leu Ser Asn Met X
1175	W "N" or "Xaa" used: Feature required	Cys Xaa Xaa Xaa Xaa Leu Tyr Val Xaa Phe X
1177	W "N" or "Xaa" used: Feature required	Asp Trp Ile Ile Ala Pro Xaa Gly Tyr Xaa A
1179	W "N" or "Xaa" used: Feature required	Xaa Cys Xaa Phe Pro Leu Xaa Xaa Xaa Xaa A
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RAW SEQUENCE LISTING
 PATENT APPLICATION US/09/375,333

DATE: 09/04/1999

TIME: 17:08:49

Input Set: I375333.RAW

PREVIOUSLY ERRORED SEQUENCES-EDITED

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2  <211> 102
3  <212> PRT
4  <213> Homo sapiens
5  <220>
6  <223> CDMP-3 construct
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12     Leu Cys Asp Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His Ala
13          35          40          45
14     Ile Ile Gln Thr Leu Leu Asn Ser Met Ala Pro Asp Ala Ala Pro Ala
15          50          55          60
16     Ser Cys Cys Val Pro Ala Arg Leu Ser Pro Ile Ser Ile Leu Tyr Ile
17          65          70          75          80
18     Asp Ala Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val Val
19          85          90          95
20     Glu Ala Cys Gly Cys Arg
21          100

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RAW SEQUENCE LISTING
PATENT APPLICATION US/09/375,333

DATE: 09/02/1999

TIME: 11:09:22

Input Set: I375333.RAW

This Raw Listing contains the General
Information Section and those Sequences
containing ERRORS.

1 <110> Oppermann, Hermann
2 Tai, Mei-Sheng
3 McCartney, John
4 <120> Modified TGF-beta Superfamily Proteins
5 <130> STK-075
6 <140> US/09/375,333
7 <141> 1999-08-16
8 <160> 88
9 <170> PatentIn Ver. 2.0

Does Not Comply
Corrected Diskette Needed

ERRORED SEQUENCES FOLLOW

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11 <211> 102
12 <212> PRT
13 <213> Homo sapiens
14 <220>
15 <223> CDMP-3 construct
16 <400> 88
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19 Asp Trp Ile Ile Ala Pro Leu Asp Tyr Glu Ala Tyr His Cys Glu Gly
20 20 25 30
21 Leu Cys Asp Phe Pro Leu Arg Ser His Leu Glu Pro Thr Asn His Ala
22 35 40 45
23 Ile Ile Gln Thr Leu Leu Asn Ser Met Ala Pro Asp Ala Ala Pro Ala
24 50 55 60
25 Ser Cys Cys Val Pro Ala Arg Leu Ser Pro Ile Ser Ile Leu Tyr Ile
26 65 70 75 80
27 Asp Ala Ala Asn Asn Val Val Tyr Lys Gln Tyr Glu Asp Met Val Val
28 85 90 95
29 Glu Ala Cys Gly Cys Arg
30 100
31 -40-
E--> 32
E--> 33 EXPRESS MAIL LABEL NO.
34 -1-

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VERIFICATION SUMMARY
PATENT APPLICATION US/09/375,333

DATE: 09/02/1999
TIME: 11:09:22

Input Set: I375333.RAW

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33	E Wrong Amino Acid Designator	EXPRESS MAIL LABEL NO. EL280661266US
33	E Wrong Amino Acid Designator	EXPRESS MAIL LABEL NO. EL280661266US
33	E Wrong Amino Acid Designator	EXPRESS MAIL LABEL NO. EL280661266US
33	E Wrong Amino Acid Designator	EXPRESS MAIL LABEL NO. EL280661266US
33	E Wrong Amino Acid Designator	EXPRESS MAIL LABEL NO. EL280661266US